



TEST REPORT

of the
Julius Kühn-Institut
Federal Research Institute
for Cultivated Plants, Braunschweig



Flatfan nozzle SR110-06
(stainless steel, plastic coated, gray)

Approved for spraying field crops

Applicant and Manufacturer
Wilger Inc.
Seahorse Drive 255
TN 38351 Lexington
USA

Approved on
22 March 2021

Assessment

The flatfan nozzle WILGER SR110-06 (stainless steel, plastic coated, gray) was tested without accessories. The nozzle is suitable for spraying field crops, provided that the following technical requirements are fulfilled:

1. Installation in a spray boom with a sufficient and a steady amount of liquid flow,
2. 500 mm nozzle spacing,
3. 50 cm between nozzles and spray target (consistency of evenness of cross distribution proved satisfactory at a distance range from 40 cm to 60 cm),
4. Spray pressure – measured in front of the nozzle – between 2.0 and 6.0 bar; liquid volume flow per nozzle as stated in table below.

Suitable precautions should be taken to assure that the nozzles do not get blocked up or drip when in use. The nozzles have a bayonet cap. They fit on TeeJet nozzle bodies using an adapter. The colour coding of the nozzle comply with standard ISO 10625.

Pressure (bar)	Liquid flow volume without accessories (l/min)	Max. deviation of single nozzle flow from the dosage tables	Evenness of cross distribution at (cm) 40 / 50 / 60 (Vk %)	Droplet spectrum (ISO 25358)
2.0	2.00	-3,25 %	6.4 / 7.8 / 6.1	very coarse
3.0	2.46	2.17 %	- / 7.0 / -	coarse
4.0	2.84	-2.63 %	7.6 / 6.4 / 4.5	coarse
5.0	3.17	-	- / 6.2 / -	medium
6.0	3.48	2.62 %	- / 5.9 / -	medium

Field test

The nozzles were used in the year 2020, a sufficient effect of the plant protective measures was confirmed.

Basics for testing

The tests were carried out on basis of the Regulations for Testing Plant Protection Equipment (JKI-Guideline 2-1.1:2013) and of ISO 5682-1:1999. The requirements of ISO 16119-2:2013 and of JKI-Guideline 1-2.1:2013 were fulfilled.

Field testing:

Landwirtschaftskammer
Nordrhein-Westfalen
Pflanzenschutzdienst, Ref. 62
Nevinghoff 40
48147 Münster

Technical testing:

Institute for Application Technique in
Plant Protection
Messeweg 11-12,
38104 Braunschweig

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